

POKHVISNEV, A.N.; SHAROV, S.I.; ZHILKIN, N.K.; ORLOV, Yu.A.; MATVEYEV,
P.M.; VASIL'YEV, S.V.; VIZLOV, Ye.M.

Operation of a 2,000 m³ capacity blast furnace. Metallurg. 9
no.1:7-11 Ja '64 (MIRA 18:1)

ZHILKIN, N.K.; INOZEMTSEV, N.S.; ORLOV, Yu.A.; POKHVISNEV, A.N.;
SHAROV, S.I.

Processes in the hearth of a powerful blast furnace. Izv. vys.
ucheb. zav.; Chern. met. 7 no.11:34-40 '64. (MIRA 17:12)

1. Moskovskiy institut stali i splavov.

POKHVISNEV, A.N., prof., doktor tekhn. nauk; VEGMAN, Ye.F., dotsent,
kand. tekhn. nauk; VAGIN, A.A., inzh.

Investigating the model of a charging apparatus with a rotating
chute. Stal' 23 [i.e. 24] no.4:299-300 Ap '64.

(MIRA 17:8)

1. Moskovskiy institut stali i splavov.

POKHVISNEV, Anatoliy Nikolayevich, prof.; KOZHEVNIKOV, Igor'
Yulianovich; SPEKTOR, Aleksandr Nutoovich; YAKHO,
Yevgeniy Naumovich

[Iron production in foreign countries without the use of
blast furnaces] Vnedomennoe poluchenie zheleza za rubezhom.
[by] A.N.Pokhv snev i dr. Moskva, Izd-vo Metallurgii,
1964. 367 p. (MIRA 17:7)

POKHVISNEV, A.N.; SPEKTOR, A.N.; VAGIN, A.A.

Pyrometallurgical method of treating iron-titanium ores from the
"Lysanskoye" deposit. Izv. vys. ucheb. zav.; chern. met. 7
no.3:23-28 '64. (MIRA 17:4)

1. Moskovskiy institut stali i splavov.

POKHVISNEV, A.N. (Moskva); YUSFIN, Yu.S. (Moskva); LIZUNOV, G.I. (Moskva)

Magnetic analysis of iron ores. Izv. AN SSSR. Met. i gor. delo
no.5:13-17 S-O '63. (MIRA 16:11)

POKHVISNEV, A.N.; SPEKTOR, A.N.; YUSFIN, Yu.S.

Sulfur removal in the coking process. Izv. vys. ucheb. zav.;
chern. met. 6 no.7:33-38 '63. (MIRA 16:9)

1. Moskovskiy institut stali i splavov.
(Coke) (Desulfuration)

TIKHOMIROV, Ye.N., kand.tekhn.nauk; POKHVISNEV, A.N., prof., doktor tekhn.nauk

Liquid phase formation at the lower levels of blast furnaces.
Stal' 23 no.8:682-685 Ag '63. (MIRA 16:9)

1. Metallurgicheskiy zavod "Azovstal'" i Moskovskiy institut
stali i splavov.

(Blast furnaces)

POKHVISNEV, A.N.; ROZHAVSKIY, L.I.; ZHILKIN, N.K.

Automatic control of the blast furnace process. Stal' 23
no.10:875-878 0 '63. (MIRA 16:11)

1. Moskovskiy institut stali i splavov i Lipetskiy filial
Moskovskogo instituta stali i splavov.

POKHVISNEV, A.N.; SHAROV, S.I.; INOZEMTSEV, N.S.

Desulfuration of cast iron in the ladle by liquid blast-furnace
slag. Stal' 22 no.6487-490 Je '62. (MIRA 16:7)

(Cast iron—Metallurgy)
(Desulfuration)

POKHVISNEV, A.N.; YUSFIN, Yu.S.

Investigating the magnetizing roasting of Kerch brown ore.
Izv.vys.ucheb.zav.; chern.met. 5 no.11:23-29 '62. (MIRA 15:12)

1. Moskovskiy institut stali i splavov.
(Kerch Peninsula—Iron ores) (Ore dressing)

POKHVISNEV, A.N., prof., doktor tekhn.nauk; TARASOV, V.P., inzh.; TARASOV,
~~F.P.~~, inzh.

Charging arrangement with two large bells. Metallurg 7 no.2:
9-11 F '62. (MIRA 15:3)

1. Moskovskiy institut stali i zavod im. Il'icha.
(Blast furnaces--Equipment and supplies)

POKHVISNEV, A.N.; EL' SAYED MUKHAMED ABDEL'RASSUL'; VEGMAN, Ye.F.

Metallurgical characteristics of iron ores from the Aswan
deposit (U.A.R.). Izv. vys. ucheb. zav.; chern. met. 5
no.7:30-36 '62. (MIRA 15:8)

1. Moskovskiy institut stali i splavov.
(Egypt--Iron ores) (Cast iron--Metallurgy)

POKHVISNEVA, Ye.A.

Large middle Paleozoic structures in the western part of the
Greater Kara-Tau (southern Kazakhstan). Geol. sbor. [Lvov] no.5/6:
321-334 '58, (MIRA 12:10)

1.Geologorazvedochnyy institut im. S. Ordzhonikidze, Moskva.
(Kara-Tau--Geology, Structural)

POKHVISNEVA, Ye.A.

Lithology and the characteristics of the diagenesis of Lower
and Middle Jurassic sediments in the northwestern Caucasus.
Izv. vys. ucheb. zav.; geol. i razv. 7 no.4:3-15 Ap '64.
(MIRA 18:3)

1. Institut geologii i razrabotki goryuchikh iskopayemykh.

POKHVISNEVA, Ye. A., Cand of Geol-Min Sci -- (diss) "The Role of Tectonic Movements in the History of the Devonian Continental Sediment Deposits in the Karatau Mountains (Southern Kazakhstan)," Moscow, 1959, 21 pp (Moscow Geological Prospecting Institute im S. Ordzhonikidze) (KL, 5-60, 124)

POKHVISNEVA, Ya.A.

Formation of Devonian red beds in the Kara-Tau (southern Kazakhstan). Izv.vys.ucheb.zav.; geol.i razv. 2 no.4:74-85
Ap '59. (MIRA 12:12)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze.
(Kara-Tau--Geology, Stratigraphi)

POKHVISNEVA, Ye.A.

Conditions governing the formation of Caledonian molasses in
Kara-Tau (southern Kazakhstan). Izv.vys.ucheb.zav.;geol.i
razv. 4 no.7:34-41 JI '61. (MIRA 14:8)

1. Institut geologii i razvedki goryuchikh iskopayemykh AN
SSSR.

(Kara-Tau--Rocks, Sedimentary)

TEODOROVICH, Georgiy Ivanovich; POKHVISNEVA, Yelena Anatol'yevna;
VARENTSOV, M.I., otv. red.; STOMYAROV, A.G., red.izd-va;
MAKAGONOVA, I.A., tekhn. red.

[Lithology and diagenesis of Jurassic sediments in the north-
western Caucasus] Litologiya i diagenез iurskikh otlozhenii
Severo-Zapadnogo Kavkaza. Moskva, Izd-vo "Nauka," 1964. 103 p.
(MIRA 17:4)

1. Chlen-korrespondent AN SSSR (for Varentsov).

1000/1000/1000

SUBJECT: USSR/Technical Schools 27-4-6/19

AUTHOR: Pokidayev, K., School Director

TITLE: Accuracy Is Here the Main Thing (Zdes' glavnoye tochnost')

PERIODICAL: Professional'no - Tekhnicheskoye Obrazovaniye, April 1957,
4 (143), pp 14-15 (USSR)

ABSTRACT: The article describes in short the work of the Penza Technical School Nr. 4 with 600 male and female students of different trades. among them radio mechanics, watchmakers, lathe operators, etc. The students will manufacture an analytical computer for solving problems of higher mathematics.

There are 9 photos.

ASSOCIATION:

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress

Card 1/1

ZHABREVA, P.S.; ISMAYLOVA, R.S.; POKIDIN, A.K.

Division of the section of the producing formation in southeastern
Kobystan based on the results of the combined studies of clays.
Trudy AzNII DN no.4:131-138 '56. (MIRA 14:4)
(Kobystan—Geology, Stratigraphic)

FRIDMAN, I.D.; SHCHETKINA, Ye.D.; POKIDIN, A. K.

Chemical inertness of weighting materials. Trudy AzNII DN
no.9:179-186 '60. (MIRA 14:5)

(Oil well drilling fluids)

DAIDREKOVA, E.A.; POKIDIN, A.K.

Lithological and thermographic characteristics of carbonate rocks
in the southeastern Caucasus. Trudy AzNII DN no.10:122-130 :60.
(MIRA 14:4)

(Caucasus--Rocks, Carbonate)

DAIDBEKOVA, E.A.; POKIDIN, A.K.; ISMAYLOVA, R.S.

Mineralogy of clays of Cretaceous sediments of the southeastern
Caucasus. Biul.MOIP.Otd.geol. 36 no.6:37-48 N-D '61. (MIRA 15:7)
(Caucasus--Clay)

RATEYEV, M.A.; POKIDIN, A.K.; KHEIROV, M.B.

Diagenetic variations in agrillaceous minerals in the cross section of Pliocene and Post-Pliocene deposits of the Caspian Sea (according to deep-drilling data). Dokl. AN SSSR 148 no.1:187-190 Ja '63.
(MIRA 16:2)

1. Geologicheskii institut AN SSSR i Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefi. Predstavleno akademikom N.M. Strakhovym.

(Caspian Sea—Geology, Stratigraphic) (Caspian Sea—Clay)

POKIDIN, A.K.; IBRAGIMOVA, B.M.; BABAYEVA, R.S.

Mineralogical characteristics of clays of the Akchagyl stage in
the Kura Lowland. Trudy AzNII DN no.10:149-155 '60. (MIRA 14:4)
(Kura Lowland—Clay)

SHCHETKINA, Ye.D.; FRIDMAN, I.D.; POKIDIN, A.K.

Using the thermographic method for studying the quality of weighting agents. Neft.khoz. 38 no.5:28-33 My '60. (MIRA 13:8)
(Oil well drilling fluids)

POKIDIN, A.K.

Correlation of sections of the producing formation in the Kura
Lowland and Baku Archipelago based on clay minerals. Azerb. neft.
khoz. 39 no.6:5-8 Je '60. (MIRA 13:10)
(Azerbaijan--Clay)

POKIDIN, V.K.; LISUNKIN, A.M.

Using a recording polarograph for the determination of iron in used
crankcase oils. Sbor.trud.Az NII NP no.4:163-169 '59. (MIRA 15:5)
(Polarograph) (Lubrication and lubricants)

DEDUSENKO, G.Ya.; POKIDIN, A.K.

Thermal stability of natural clay muds. Sbor. nauch.-tekhn. inform.
Azerb. inst. nauch.-tekhn. inform. Ser. Neft. prom. no.4:48-52 '63.
(MIRA 18:9)

RATEYEV, M.A.; POKIDIN, A.K.; KHEIROV, M.B.

Clay minerals and their distribution and genesis in the
composition section of the Alyaty Sea. Trudy GIN no.115:89-
112 '65. (MIRA 18:12)

22

CA

X-ray investigation of hydrocarbon systems at low temperatures. T. P. Zhurav and V. K. Pakulin. *Doklady Akad. Nauk S.S.S.R.* 50, 311 (1915). Dehydrocrans of a Crocnyl paraffin fraction m. 52.5°, mol. wt. 201, showed over 20 lines, with the 1st lines corresponding to $\theta = 10.5^\circ$ and 11.7° most intense. Its 0.07% soln. in white solar oil (m.p. $< -60^\circ$), at room temp., showed only one liquid ring. On cooling to $2-3^\circ$, i.e. $4-5^\circ$ below the freezing temp. of the soln., there appeared spots indicating crystals of paraffin, in crystals larger than 10^{-4} cm. A 0.8% soln. of ceresin (m. 77.2° , mol. wt. 880) in toluene, at $27-22^\circ$, i.e. $10-15^\circ$ below the freezing temp. of the soln., showed, in addn. to the broad liquid ring, 2 fine rings corresponding to ceresin, indicating a crystal size of $10^{-4} - 10^{-5}$ cm. The 0.07% soln. of paraffin in white solar oil, with 3% paraffin, at -4° , showed 2 rings belonging to paraffin, indicating a crystal size of the order of 10^{-4} cm. and absence of orientation. N. Thon

456-51A METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS		PROCESSES AND PROPERTIES INDEX	
117 AND 118 (COPPER)		119 AND 120 (ZINC)	
F 2456. X-RAY INVESTIGATION OF HYDROCARBON SYSTEMS AT LOW TEMPERATURES. Zhuze, T. P. and Pokidin, V. K. (Doklady Akad. Nauk S.S.S.R., 1945, vol. 50, 311-314; abstr. in Chem. Abstr., 1949, vol. 43, 2410). Debyeograms of a Groznyi paraffin fraction m. 52.5°, mol. wt 291 showed over 20 lines, with the first line corresponding to θ 10.5°, and 11.7° most intense. Its 9.67% solution in white solar oil (m.p. -55°), at room temperature, showed only one liquid ring. On cooling to 2-3°, i.e. 4-5° below the freezing temperature of the solution, there appeared spots indicating crystallization of paraffin, in crystals larger than 10^{-3} c.m. A 6.8% solution of ceresin (m. 77.2°, mol. wt. 569) in toluene, at 27-22°, i.e. 10-15° below the freezing temperature of the solution, showed, in addition to the broad liquid ring, 2 fine rings corresponding to ceresin, indicating a crystal size of 10^{-3}-10^{-6} c.m. The 9.67% solution of paraffin in white solar oil, with 3% paraflow, at -4°, showed 2 rings belonging to paraffin, indicating a crystal size of the order of 10^{-6} c.m. and absence of orientation. (L).			
ASH-11A METALLURGICAL LITERATURE CLASSIFICATION			
117 AND 118 (COPPER)		119 AND 120 (ZINC)	
117 AND 118 (COPPER)		119 AND 120 (ZINC)	

ROZOVA, Yekaterina Sergeyevna; VOLEVAKHA, M.M., kand. geogr. nauk,
red.; IGNATENKO, A.Y. [Ihnatenko, A.I.], red.; POKIDKO,
A.I. [Pokyd'ko, A.I.], red.; KVITKA, S.P., tekhn. red.

[Rainless periods in the Ukraine] Bezdoshchovi periody na
Ukraini. Kyiv, Vyd-vo UASHN, 1961. 69 p. (MIRA 16:5)
(Ukraine--Droughts)

YUR'YEV, V.Ya., otv. red. [Deceased]; STRONA, I.G., kand. sel'khoz. nauk, zam. otv. red.; VOL'F, V.G., red.; POLYAKOV, I.M., red.; LAPTSEVICH, G.P., red.; KIREYEV, F.N., red.; POKID'KO, A.I., red.; POTOTSKAYA, L.A., tekhn. red.

[Scientific problems in seed production, the study and the inspection of seeds] Nauchnye voprosy semenovodstva, semenovedeniya i kontrol'no-semennogo dela; sbornik materialov. Kiev, Izd-vo Ukr. akad. sel'khoz. nauk, 1962. 203 p. (MIRA 16:5)

1. Soveshchaniye po organizatsii nauchno-issledovatel'skoy raboty v oblasti semenovodstva, semenovedeniya i kontrol'no-semennogo dela. Kharkov, 1961. 2. Ukrainskiy nauchno-issledovatel'skiy institut rasteniyevodstva, selektsii i genetiki (for Strona). (Seed industry)

KOTOV, Anatoliy Ivanovich, kand. sel'khoz. nauk; TITQV, V.I., red.;
POKID'KO, A.I., red.; VIDONYAK, A.P., tekhn. red.

[Principles and particular aspects of forest management] Ob
osnovakh lesoustroistva i ego osobennostiakh. Kiev, Izd-vo
Ukr. Akad. sel'khoz. nauk, 1961. 118 p. (MIRA 14:8)
(Forest management)

POKID'KO, I.A.

Appendicitis in a pregnant woman with situs inversus of the intestines.
Nov. khir. arkh. no.4:106 J1-Ag '60. (MIRA 15:2)

1. Adres avtora: Vinnitsa, Oblastnaya bol'nitsa imeni Pirogova.
(APPENDICITIS) (PREGNANCY, COMPLICATIONS OF)

POKID'KO, I.A.

Some neurological and biomechanical disorders in endarteritis
obliterans [with summary in English]. Vrach.delo no.9:62-65 S '62.
(MIRA 15:8)

1. Vinnitskaya oblastnaya bol'nitsa (nauchnyy konsul'tant - prof.
I.M.Grabchemko).

(ARTERIES--DISEASES)

POKID'KO, I.A.

Massive purulent necrotic liquefaction of the liver following rupture due to blunt trauma. Nov. khir. arkh. no.5:110 S-O '60. (MIRA 14:12)

1. Khirurgicheskoye otdeleniye Oratovskoy rayonnoy bol'nitsy Vinnitskoy oblasti. Adres avtora: Vinnitsa, Oblastnaya bol'nitsa.
(LIVER—DISEASES) (LIVER—WOUNDS AND INJURIES)

POKID'KO, I.A. (Vinnitsa)

On peripheral neurinomas. Vop.neirokhir. 25 no.3:51-53 My-Je
'61. (MIRA 14:5)
(NERVES, PERIPHERAL—TUMORS)

POKIDKO, N. M.

Meropriiatia po uluchsheniiu raboty morskogo flota. [Measures for improving the work of the merchant marine]. Moskva, Morskoi transport, 1947, 42 p.

SO: Soviet Transportation and Communications, Library of Congress,
Reference Department, Washington, 1952, Unclassified.

POMILO, N.M.

KRIVOSHAPKIN, A.A.; USMINSKIY, A.N.; POKIDKO, N.M., redaktor; SANDLER, N.V.,
redaktor izdatel'stva; DOROZHNIKA, D.I., tekhnicheskiy redaktor

[Palleting and bundling freight; experience of Leningrad docks with
seagoing goods] Paketnaya pererabotka грузов; opyt Leningradskogo
morskogo trgovogo porta. Leningrad, Izd-vo "Morskoi transport,"
1956. 56 p. (MIRA 10:9)

(Freight and freightage) (Containers)

POKIDKO, Nikolay Maksimovich

[The economics and the organization of the merchant
marine] Ekonomika i organizatsiia morskikh perevozok.
Moskva, Izd-vo morskoi transport, 1961. 389 p.

(MIRA 16:3)

(Merchant marine)

POKIDKO, Nikolay Maksimovich; FAFURIN, Nikolay Andreyevich; FEL'DBAUM, S.S.,
redaktor; SEMENOVA, M.M., redaktor; TIKHONOVA, Ye.A., tekhnicheskii
redaktor.

[Transporting lumber by sea] Perevozka lesa morem. Moskva, Izd-vo
"Morskoi transport", 1956. 69 p. (MLRA 9:5)
(Lumber--Transportation)

MOSTOVAYA, Larisa Aleksandrovna [Mostova, L.O.], kand. med. nauk;
POKID'KO, O.D. [Pokyd'ko, O.D., translator]; LUK'YANOVA, O.M.,
red.; GITSHTEYN, A.D. [Hitshtein, A.D.], tekhn. red.

[Breast feeding of infants during their first year of life]
Hrudne vyhodovuvannia ditei pershoho roku zhyttia. Kyiv,
Derzh. med. vyd-vo URSR, 1961. 12 p. (MIRA 15:3)
(BREAST FEEDING)

POKIDOV, I.I.

POKIDOV, I.I., Cand Vet Sci -- (diss) "Significance of aerosol
antiacarid treatments in the prophylaxis of hemosporidiosis in
cattle and ~~in~~ spirochetosis in birds ^{under} conditions of ~~the~~ Stav-
ropol ^{Stepy Kray} region." Stavropol', 1957. 26 ~~pp~~ pp. (Min Agr USSR, Stav-
ropol' Agr Inst), 130 copies. (KL, 9-58, 121)

- 121 -

USSR/Diseases of Farm Animals - Diseases Caused by Helminths.
Arachno-Entoms.

R.

Abs Jour : Ref Zhur - Biol., No 6, 1958, 26344

Author : Pokidov, I.I.

Inst :

Title : Application of Aerosol for the Destruction of Helminths,
the Carriers of Hemosporidiosis in Large Horned Cattle.

Orig Pub : Veterinariya, 1957, No 3, 98-62

Abstract : In order to obtain an ascaricide, a 10 percent solution
of hexachloran in spindle oil was used. Before treat-
ment the cows were placed on two sides of the tether.
The young animals were placed at the bases, which were
divided into sections. Around the bases and the tether
an automatically driven machine went by with an aerosol
apparatus, AAH. The solution expenditure for each
animal amounted to 100 to 250 grams. The treatment was
given every 10 days; the first treatment was given

Card 1/2

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POKIDOV, I.I.

NIKOL'SKIY, S.N., doktor veterinarnykh nauk.; GLUKHOV, V.F.; POKIDOV, I.I.

Treating cattle with hexachloran to control ticks. Dokl. Akad.
sel'khoz. 22 no.2:42-48 '57.

(MIRA 10:5)

1. Stavropol'skiy sel'skokhozyaystvennyy institut. Predstavlena
akademikom S. N. Murontsevym.
(Benzene hexachloride) (Ticks)
(Cattle--Diseases and pests)

~~POKROV~~ I. I. aspirant.

Aerosols for controlling ticks carrying haemosporidiosis of cattle.
Veterinariia 34 no.3:58-62 Mr '57. (MIRA 10:4)

1. Stavropol'skiy sel'skokhozyaystvennyy institut.
(Aerosols) (Ticks as carriers of disease)

POKIDOV, N., inzh.

Infrared rays. Izobr.i rats. no.1:49-50 Ja '60.
(MIRA 13:4)

(Infrared rays--Industrial application)

POKIDOV, N.; VLADIMIROV, L.

Problems of the "Tomorrow of electricity." Znan.sila 35 no.4:7-10
Ap '60. (MIRA 13:8)

(Electricity)

PEKSHEV, V.; POKIDOV, N.

Expansion of Soviet-Yugoslav economic relations. Vnesh.torg. 42
no.1:14-16 '63. (MIRA 16:2)
(Russia—Foreign economic relations—Yugoslavia)
(Yugoslavia—Foreign economic relations—Russia)

POKIDOV, N., inzh.; YANCHUK, I., inzh.

Road, speed and time. Znan.-sila 38 no.2:7 P '63. (MIRA 16:3)
(Reinforced concrete) (Railroads--Track)

POKIDOV, N.

Energy of the "blue ocean." Znan.sila 35 no.6:24-25 Je '60.
(MIRA 13:7)

1. Uchenyy sekretar' Gosudarstvennogo nauchno-tekhnicheskogo
Komiteta Soveta Ministrov SSSR.
(Wind power)

POKIDOV, N., inzh.

On the main transport lines. Starsh.-serzh. no.7:10-11 J1 '62.
(MIRA 16:6)

(Transportation)

POKIDOV, N., uchenyy sekretar'

Meet glass! Znan.sila 35 no.7:22-23 J1 '60. (MIRA 13:7)

1. Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta
Ministrov SSSR.

(Glass)

POKIDOV, N.

Hot breathing of the earth. Starsh.-serzh. no.10:22-23 0 '61.
(MIRA 15:2)
(Springs)

POKIDOV, N., starshiy ekspert

Fly faster, trains! Znan. sila 37 no.1:1-5 Ja '62. (MIRA 15:1)

1. Gosudarstvennyy komitet Soveta Ministrov SSSR po koordinatsii
nauchno-issledovatel'skikh rabot.

(Railroads)

Pokidov, N. H.

AID P - 4430

Subject : USSR/Heat Engineering

Card 1/1 Pub. 110-a - 10/13

Author : Pokidov, N. A., Eng.

Title : Heat transfer in cooled gas turbine blades (News from abroad).

Periodical : Teploenergetika, 6, 59-61, Je 1956

Abstract : A review of American and British literature on this subject. Types of gas turbine cooling, i.e. liquid, free convection, evaporation cooling are discussed. Three diagrams. Seven English references, 1950-1955.

Institution : None

Submitted : No date

AUTHOR: Pokidov, N. A.

TITLE: Construction Parts Made of Glass Manufactured in German Democratic Republic (Stroitel'nyye detali iz stekla v Germanskoy Demokraticheskoy Respublike)

PERIODICAL: Steklo i Keramika, 1957, Vol. 14, No. 1, p. 30 (U.S.S.R.)

ABSTRACT: Based on information contained in the journal "German Export" No. 10, 1955, the Glass Works Grefenrod (Glaswerk Grefenrod) East Germany, is producing a series of building parts from glass, namely: tiles, conduits, drain pipes and bricks. Fig. 1 shows a building constructed from the above-mentioned articles. Fig. 2 shows a profile glass made at the Cast Iron and Color Glass Works of Pirna Kopitz (Guss-und Farbenglaswerke Pirna Kopitz)

There are no references cited.

Card 1/2

POKIDOVA, N.V.; FURER, N.M.; SAPOZHNIKOVA, G.A.; YERMOL'YEVA, Z.V., prof.

Purification of interferon by chromatography on sephadex
KM. Antibiotiki 10 no.8:713-717 Ag '65. (MIRA 18:9)

1. Laboratoriya novykh antibiotikov i biologicheskii aktivnykh
veshchestv, Kafedra mikrobiologii (zav.- deystvitel'nyy chlen
AMN SSSR prof. A.V. Yermol'yeva) Tsentral'nogo instituta us-
vershenstvovaniya vrachey, Moskva.

L 24105-66

ACC NR: AP6014659

SOURCE CODE: UR/0297/65/010/002/0137/0141

AUTHOR: Pokidova, N. V.; Smertenko, I. I.; Buzina, T. P.

ORG: Laboratory of New Antibiotics and Biologically Active Substances, Department of Microbiology/headed by Active member AMN SSSR, Professor Z. V. Yermol'yeva/, Central Institute for the Advanced Training of Physicians, Moscow (Laboratoriya novykh antibiotikov i biologicheskii aktivnykh veshchestv kafedry mikrobiologii Tsentral'nogo instituta usovershenstvovaniya vrachey)

TITLE: Investigations of the effect of purified preparations of basic polypeptides from animal tissues on malignant cells in culture

SOURCE: Antibiotiki, v. 10, no. 2, 1965, 137-141

TOPIC TAGS: polypeptide, amino acid, chromatography, cancer drug

ABSTRACT: The premise that specific polypeptides found in animal tissues take part in the mechanism which governs the reproduction of cells has been experimentally tested. The tests involved the isolation of the polypeptides from the tissues, their purification, the determination of their chemical structure and the properties which determine their biological specificity, and their effect on cells of malignant tumors. The basic polypeptides isolated from animal tissue and human placenta were found to possess strongly expressed cationic properties, due to their high content of amino acids (lysine -- 29 percent, arginine -- 4.5 percent, and histidine -- two percent). A chromatographic method of investigation established also that the

Card 1/2

UDC: 615.779.935-092.18: 616-006.918

L 24105-66

ACC NR: AP6014659

polypeptides isolated from different organs were similar in regard to their peptides content. By means of gel-filtration through Sefadex G-100, the basic polypeptides were purified and separated into two components having different molecular weights. The components differed in their biological activity. Component No. (1), a compound of high molecular weight, inhibited the growth of Ehrlich's tumor cells in vitro by 100 percent, and the growth of normal cells -- by 42 percent; component No. (2), a compound of low molecular weight, inhibited the growth of the malignant cells by 65 percent, and that of normal cells by 34 percent. It was established also that the antitumor activity of the polypeptides is increased tenfold by purification of the initial materials. Orig. art. has: 3 figures. [JPRS]

SUB CODE: 06, 07 / SUBM DATE: 27Oct64 / ORIG REF: 005 / OTH REF: 005

Card 2/2 *HW*

POKIDOVA, N.V.; SMERTENKO, I.I.; BUZINA, T.P.

Testing the effect of purified preparations of basic polypeptides derived from animal tissues on tumor cells. Antibiotiki 10 no.2: 137-141 F '65. (MIRA 18:5)

1. Laboratoriya novykh antibiotikov i biologicheskii aktivnykh veshchestv kafedry mikrobiologii (zav. - deystvitel'nyy chlen AMN SSSR prof. Z.V.Yermol'yeva) Tsentral'nogo instituta usovershenstvovaniya vrachey, Moskva.

YERMOL'YEVA, Z.V.; RAVICH, I.V.; NAVASHIN, S.M.; BRAUDE, A.I.; FOMINA, I.P.;
TERENT'YEVA, T.G.; POKIDOVA, N.V.; BOYKO, V.I.

Experimental study of the antitumor action of some substances
of natural origin. Antibiotiki 7 no.7: 571-581 J1'62.

(MIRA 16:10)

1. Laboratoriya novykh antibiotikov kafedry mikrobiologii

TSentral'nogo instituta usovershenstvovaniya vrachey.

(CYTOTOXIC DRUGS) (POLYSACCHARIDES) (PEPTIDES)

(VIRUSES)

POKIDOVA, N. V., Cand Chem Sci -- (diss) "Obtaining⁹ hemoglobin preparation and study of its properties." Mos, 1958. 14 pp (Min of Higher Education USSR, Mos Technol Inst of Meat and Dairy Industry), 110 copies (KL, 16-58, 117)

-18-

USSR/Human and Animal Physiology - (Normal and Pathological).
Blood. Blood Transfusion and Blood Substitutes.

T

Abs Jour : Ref Zhur Biol., No 4, 1959, 17341

Author : Rozenberg, G.Ya., Pokidova, N.V., Koziner, V.B.

Inst : -

Title : New Synthetic Blood Substitute from Cellulose Preparation

Orig Pub : Probl. gematol. i perelivaniya krovi, 1958, 3, No 1, 35-37

Abstract : The synthetic preparation carboxymethylcellulose (I), applied as a blood substitute, possesses the properties of a hydrophylic colloid. I is obtained in the form of a white powder, easily soluble in water and in Ringer solution. 2-3% solutions (pH 6.9-7.4) are utilized. After sterilization of the solutions the pH practically does not change. At higher pH, the solution becomes yellow. For depriving the solutions of pyrogenic properties, they are treated with activated carbon.

Card 1/2

- 30 -

POKIDOVA, Ye. S.
NIKOL'SKAYA, V.S.; *POKIDOVA, Ye. S.*; TRIUS, B.V.; SLEMZIN, A.A., redaktor;
POMICHEV, P.M., tekhnicheskiiy redaktor

[Land under cultivation in the U.S.S.R.; a statistical manual]
Posevnye ploshchadi SSSR; statisticheskii sbornik. Moskva, Gos.
stat.izd-vo. Vol.1.1957. 514 p. Vol.2. [Industrial crops, potatoes,
vegetables, vine and forage crops] Tekhnicheskie kul'tury, kartofel',
ovoshche-bakhchevye i kormovye kul'tury. 1957. 502 p. (MIRA 10:8)

1. Russia (1923- U.S.S.R.) TSentral'noye statisticheskoye
upravleniye
(Agriculture--Statistics)

MALKIN, I.M.; CHIRKOVA, N.P.; NEYMAN, V.G.; KARLINSKAYA, L.S.; GANCHENKO, V.M.; POKIDYSHEV, M.I.; CHERNYSHEV, Yu.P.; PLATONOV, G.F.; MIKHAYLOV, N.I.; ABDEYEV, M.A.; MILLER, O.G.; BUTENKO, N.S.; DYUYSEKIN, Ye.K.

Treatment of zinc-bearing slags in electric furnaces with coke conductivity. TSvet. met 33 no. 12:15-23 D '60. (MIRA 13:12)

1. Leninogorskiy polimetallicheskiy kombinat (for Malkin, Chirkova, Neyman, Karlinskaya, Ganchenko, Pokidyshev, Chernyshev). 2. Altay-skiy gorno-metallurgicheskiy institut AN KazSSR (for Platonov, Mikhaylov, Abdeyev, Miller, Butenko, Dyuysekin).
(Zinc--Electrometallurgy) (Electric furnaces)

L 7903-66 EWT(m)/EWP(t)/EWP(z)/EWP(b) IJP(c) JD/JW/HW/JG

ACC NR: AP5027932

SOURCE CODE: UR/0363/65/001/010/1747/1757

AUTHOR: Malkin, V. I.; Pokidyshev, V. V.

ORG: Central Scientific Research Institute of Ferrous Metallurgy im. I. P. Bardin
(Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii)

TITLE: The nature of the interaction of the components in the gamma and gamma' phase of the systems Ni-Al, Ni-Al-Cr, Ni-Al-Co, and Ni-Al-Fe

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 10, 1965, 1747-1757

TOPIC TAGS: ^{27, 44, 55}nickel alloy, ²⁷aluminum alloy, ⁴⁷chromium alloy, ²⁷cobalt alloy, ²⁷iron alloy

ABSTRACT: The emf method is used to determine the thermodynamic activity of aluminum in the binary system nickel-aluminum (0 - 25 at. % Al), in the ternary system Ni-Al-Cr (0 - 21 at. % Al), and in sections of Ni-Al-Co and Ni-Al-Fe with a constant ratio of atomic fractions $N_{Ni}/N_{Co} = 9$ and $N_{Ni}/N_{Fe} = 9$ (0 - 26 at. % Al). The experiments were carried out at 770 - 900C in an argon-filled closed cell. The measurements showed a strong negative deviation from ideality in the alloys studied. The magnitude of these deviations decreases from the binary system to ternary ones in the order Ni-Al, Ni-Al-Co, Ni-Al-Fe, Ni-Al-Cr. Correspondingly, the work of formation of the γ' phase decreases. These results are based on concepts of donor-acceptor interaction. The data are in good agreement with those obtained by measuring the vapor pressure and with calorimetric measurements. Orig. art. has: 8 figures.

Card 1/2

UDC: 669.017.3

L 7903-66

ACC NR: AP5027932

4 tables, and 10 formulas.

SUB CODE: MM, TD, IC / SUBM DATE: 05Jul65 / ORIG REF: 007 / OTH REF: 005

Card

ny
2/2

SOV/24-58-5-25/31

AUTHORS: Malkin, V. I. and Pokidyshev, V. V. (Moscow)

TITLE: Measuring the Number of Ion Transfers in a Sodium-Cobalt Silicate Melt (Izmereniye chisel perenosa ionov v rasplave natriy-kobal'tovogo silikata)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 5, pp 129-131 (USSR)

ABSTRACT: In earlier work of one of the authors and his team (Ref 1), a comparison was made of the mobility of Na^+ and Ca^{++} ions in a silicate melt of the composition $\text{Na}_2\text{O} \cdot \text{CaO} \cdot 4\text{SiO}_2$. Although the two ions have almost equal radii, the mobility of the single charge ion Na^+ is over twice as high as that of the ion Ca^{++} . The authors considered it of interest to compare the mobility of Na^+ with Co^{++} , the radius of which is lower than the radius of the ion Na^+ . For this purpose they measured the number of transfers of the ions Na^+ and Co^{++} in the melt $2\text{Na}_2\text{O} \cdot \text{CoO} \cdot 6\text{SiO}_2$ for which the O:Si ratio is the same as for the melt $\text{Na}_2\text{O} \cdot \text{CaO} \cdot 4\text{SiO}_2$ but the molar concentration is twice as large as the concentration of CoO. Measurement of the number of transfers was carried out by a method which was

Card 1/3

SOV/24-58-5-25/31

Measuring the Number of Ion Transfers in a Sodium-Cobalt
Silicate Melt

described in detail in earlier work (Ref 2) of one of the authors, which is based on measuring by means of radioactive tracers the small changes in the cation and anion concentrations in the case of passing of small quantities of electricity through the melt; Na^{24} and Co^{60} were used. The experiments were carried out at 1200°C and the results are entered in a table, p 130. The number of transfers for the ion Na^+ approaches unity, whilst for the ion Co^{++} they are nearer to zero. Thus, in the investigated melt the ratio of the mobility of the Na^+ ion to that of the Co^{++} ion is larger than the ratio of the mobility of the Na^+ ion to that of the Ca^{++} ion in the melt $\text{Na}_2\text{O}\cdot\text{CaO}\cdot 4\text{SiO}_2$. This is explained by the smaller value of the radius of the Co^{++} ion as compared with the Ca^{++} ion, which brings about a stronger link between Co^{++} ion and the anion grid of the melt.

Card 2/3

Measuring the Number of Ion Transfers in a Sodium-Cobalt
Silicate Melt SOV/24-58-5-25/31

There are 1 table and 5 references, 4 of which are Soviet,
1 English.

ASSOCIATION: Institut metallovedeniya i fiziki metallov TsNIICHM
(Institute of Metallography and Metal Physics
TsNIICHM)

SUBMITTED: October 17, 1957

Card 3/3

AUTHORS: Malkin, V. I., Pokidyshev, V. V. SOV/78-3-9-37/38

TITLE: The Determination of the Transference Number of the Na^+ Ion in the Melt of $\text{Li}_2\text{O} \cdot \text{Na}_2\text{O} \cdot 4\text{SiO}_2$ (Izmereniye chisla perenosiya Na^+ v rasplave $\text{Li}_2\text{O} \cdot \text{Na}_2\text{O} \cdot 4\text{SiO}_2$)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 9, pp 2219-2220 (USSR)

ABSTRACT: The paper under review deals with the analysis of the relative mobility of cations in the melt of $\text{Li}_2\text{O} \cdot \text{Na}_2\text{O} \cdot 4\text{SiO}_2$. The investigations were carried out by using the radioactive isotope Na^{24} . The results show that the sodium ion in the melt examined is more mobile in comparison with lithium. The electric conductivity of the melt $\text{Na}_2\text{O} \cdot \text{SiO}_2$ at $150-230^\circ\text{C}$ is considerably higher than that of the glass melt with a composition of $\text{Li}_2\text{O} \cdot 2\text{SiO}_2$. In the case of simultaneous presence of two cations with equal anions the mobility of one cation depends on the properties of the other.

Card 1/2 There are 1 table and 10 references, 5 of which are Soviet.

SOV/78-3-9-37/38
The Determination of the Transference Number of the Na^+ Ion in the Melt of
 $\text{Li}_2\text{O} \cdot \text{Na}_2\text{O} \cdot 4\text{SiO}_2$

ASSOCIATION: Institut metallovedeniya i fiziki metallov (Institute of
Metallography and Physics of Metals) Tsentral'nogo nauchno-
issledovatel'skogo instituta chernoy metallurgii (of the Central
Scientific Research Institute of Ferrous Metallurgy)

SUBMITTED: March 18, 1958

Card 2/2

POKIDYSHEV, V.U.

POKIDYSHEV, V.U.

Сынал амьдаг этносталынгай пэвчлэлтүүн багцанов в
элиментүүд рэсплэвэлх и ихэ сарындал и рэдиснал.

Report submitted for the 5th Physical Chemical Conference on
Steel Production.

MOSCOW 30 JUL 1978

MALKIN, V.I.; POKIDYSHEV, V.V.

Change of the transference number of Na^+ ion in $\text{Li}_2\text{O} \cdot \text{Na}_2\text{O} \cdot 4\text{SiO}_2$
melt. Zhur. neorg. khim. 3 no.9:2219-2220 S '58. (MIRA 11:10)

1. Institut metallovedeniya i fiziki metallov Tsentral'nogo nauchno-
issledovatel'skogo instituta chernoy metallurgii.
(Ions) (Electrochemical analysis)

18(0) PHASE I BOOK EXPLOITATION SOV/2125
Tsentr'nyy nauchno-issledovatel'skiy institut Chernoy metallurgii
Institut Metallovedeniya i fiziki metallov
Problemy metallovedeniya i fiziki metallov (Problems in Physical Metallurgy and Metallophysics) Moscow, Metallurgizdat, 1959.
340 p. (Series: It's: Sbornik trudov, 6) Errata slip inserted.
3,600 copies printed.
Additional Sponsoring Agency: USSR Gosudarstvennaya planovaya komissiya.
Ed. of Publishing House: Ye. M. Beilin; Tech. Ed.: P. G. Isent'yeva;
Editorial Board: D. S. Kamanetskaya, B. Ya. Kravtsov, Ye. Z. Malkin, Ye. Z. Spektor, L. M. Utevalsky, L. A. Shvartsman, and V. I. Malkin.
PURPOSE: This book is intended for metallurgists, metallurgical engineers, and specialists in the physics of metals.
COVERAGE: The papers in this collection present the results of investigations conducted between 1954 and 1956. Subjects

Card 1/18

covered include crystallization of metals, physical methods of influencing the processes of crystallization, problems in the physical chemistry of metallurgical processes, development of new methods and equipment for investigating metals, and production control. References follow each article.

TABLE OF CONTENTS:

Petrova, Ye. P., and L. A. Shvartsman. Effect of Alloying Elements on the Thermodynamic Activity of Carbon in Gamma Iron. It is shown that the activity of carbon in gamma iron containing additions of Mn, Cr, V, and Ti is considerably higher than in commercial steels. This would indicate that the bond strength between carbon dissolved in gamma iron is substantially increased by the introduction of carbide-forming elements. 259

Vintaykin, Ye. Z. Methods of Determining Vapor Pressure Over Metals and Alloys 293

Malkin, V. I. Measurement of Crystallization Rates in Slags of the System $\text{CaO-Al}_2\text{O}_3\text{-SiO}_2$ 306

For two slags of this system a determination was made of the relationship between temperature and rate of crystallization in the temperature range of the vitreous state. Within a narrow temperature range this relationship can be described by a simple exponential law. Determinations were also made of the energy of activation of the rate of crystallization. The high value of the energy of activation for slag consisting of 23 percent CaO , 18 percent Al_2O_3 , and 59 percent SiO_2 (86,000 k cal./mol) as compared with that for slag consisting of 23 percent CaO , 32 percent Al_2O_3 , and 45 percent SiO_2 indicates the presence of cationic aluminum in these slags.

Malkin, V. I., and L. A. Shvartsman. Change in the Transport Number of the Na^+ Ion in Fused Sodium Silicate 311

Malkin, V. I., V. V. Pokidyshev, S. P. Khokhlov, and L. A. Shvartsman. The Effect of an Electric Current Passed Through the Slag-Metal Boundary in the Desulfurization Process of Pig Iron 314

38968-66 EWT(m)/EWP(t)/ETI IJP(c) JD/WW/JW/IW/JG

AP6013372

SOURCE CODE: UR/0370/66/000/002/0166/0173 59

AUTHOR: Malkin, V. I. (Moscow); Pokidyshev, V. V. (Moscow) 58 B

ORG: none

TITLE: Determination of the thermodynamic activity of aluminum in Ni-Al and Ni-Al-Cr alloys by the electromotive force method 27 27 27

SOURCE: AN SSSR. Izvestiya. Metally, no. 2, 1966, 166-173

TOPIC TAGS: nickel alloy, aluminum alloy, chromium containing alloy, free energy

ABSTRACT: In order to determine the influence of chromium on the interaction of nickel and aluminum, the emf method was used to determine the activity of aluminum in alloys of the binary system Ni-Al in the concentration range from 0 to 25 at.% Al and in the α -Al section of the ternary system Ni-Al-Cr (8.38 at.% Cr, 91.62 at.% Ni - 100 at.% Al) in the concentration range from 0 to 21 at.% Al. The experiments were performed at 1045, 1090, 1135, and 1180°K. A pronounced negative deviation from ideality was observed in the alloys of both systems. The work of formation of the alloys and the magnitude of these deviations decrease as chromium is added to the alloys of the binary system. The observed decrease in the interaction of nickel and aluminum in the presence of chromium may be due to the competition between aluminum and chromium in giving up their electrons to nickel. The results obtained by the emf

Card 1/2

UDC: 669.245*71*26

L 38968-66

ACC NR: AP6013372

method are in good agreement with data on chromium vapor pressure measurements and with the results of calorimetric measurements. Orig. art. has: 5 figures, 3 tables, and 10 formulas.

SUB CODE: 11/ SUBM DATE: 26Feb64/ ORIG REF: 004/ OTH REF: 003

Card 2/2MLP

L 38224-66 DT(m) T/MP(c)/MTI TJP(c) JH/JD/HW
ACC NR: AP6009427

SOURCE CODE: UR/0020/66/166/006/1390/1392

AUTHOR: Malkin, V. I.; Pokidyshev, V. V.

ORG: Central Scientific Research Institute of Ferrous Metallurgy im. I. P. Bardin
(Tsentral'nyy nauchno-issledovatel'skiy institut chernoy)

TITLE: Effect of a third component added to nickel-aluminum alloys on the thermo-
dynamic properties of the γ - and γ' -phases

SOURCE: AN SSSR. Doklady, v. 166, no. 6, 1966, 1390-1392

TOPIC TAGS: thermodynamic property, nickel alloy, high temperature alloy

ABSTRACT: The activity of aluminum in the γ - and γ' -phases of the Ni-Al binary system and the Ni-Al-Cr, Ni-Al-W, Ni-Al-Co and Ni-Al-Fe ternary systems was studied by the emf method in the 1045-1180°K temperature interval. The sum of emf of the cobalt-aluminum reference electrode (containing 55-70% Al) and the test alloy characterizes the work required for the transfer of aluminum from the aluminum melt into this alloy. If solid aluminum at the temperature of the experiment is taken as the standard state then the isobaric-isothermal potential of the dissolution of aluminum in the alloy, where N_{Al} is the atomic fraction of aluminum, is defined by the

Card 1/3

UDC: 536.777

L 38224-66

ACC NR: AP6009427

expression

$$\Delta Z_{Al} = RT \ln a_{Al} = RT \ln \gamma_{Al} + RT \ln N_{Al} = -nEF - \Delta S_{f,Al}(T - T_{f,Al}), \quad (1)$$

where n is the charge of aluminum ion, E is emf in volts, $F = 23,060$ (if ΔZ_{Al} is expressed in calories), a_{Al} is the activity of aluminum in the alloy, γ_{Al} is the activity coefficient of aluminum, $\Delta S_{f,Al}$ is the entropy of the fusion of aluminum, T_f is the melting point of aluminum in $^{\circ}K$, T is the temperature of the experiment in $^{\circ}K$. In all of the systems investigated, extremely large negative deviations from the ideal behavior were observed. These deviations decrease with an increase in temperature, which indicates a strong interatomic interaction. This interaction is greatest in the Ni-Al system, where the added third component increases the activity of aluminum in the following order: Co, Fe, Cr, W. A similar sequence, characterized by the interatomic interaction in the systems upon the addition of the third component, was also observed in the partial heats of solution of aluminum in alloys of γ - and γ' -phases. The effect of the third component on the thermodynamic activity of aluminum is related to the difference in the electronegativity of nickel and of the added component. The greater this difference, the more effective is the added third component in increasing the activity of aluminum. As the solubility of the third component decreases in the γ' -phase the activity of aluminum in this phase

Card 2/3

L 38224-66
ACC NR: AP6009427

increases. Orig. art. has: 2 figures, 1 table.

SUB CODE: 11,²⁰~~87~~/ SUBM DATE: 01Jul65/ ORIG REF: 005/ OTH REF: 001

Card 3/3 *4b*

MALKIN, V.I., kand.tekhn.nauk; POKIDYSHEV, V.V.; KHOKHLOV, S.F.;
SHVARTSMAN, L.A., doktor khim.nauk

Effect of electric current passed through a metal-slag boundary
on the process of iron desulfuration. Probl.metalloved.i fiz.
met. no.6:314-317 '59. (MIRA 12:8)
(Cast iron--Electrometallurgy)
(Desulfuration)

5(2)

AUTHORS:

Malkin, V. I., Pokidyshev, V. V.

05895

SOV/78-4-11-48/50

TITLE:

Measurement of the Transference Number of Na^+ - and Ba^{2+} -Ions in the Melt $\text{Na}_2\text{O} \cdot \text{BaO} \cdot 4\text{SiO}_2$

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 11, pp 2645-2646 (USSR)

ABSTRACT:

In order to determine the relative mobility of a bivalent ion the radius of which is larger than that of Ca^{2+} , a melt was prepared from Na_2CO_3 , BaCO_3 and rock crystal, and the transference number was computed by means of the radioactive isotopes Na^{24} (5 experiments) and Ba^{140} (3 experiments) according to the equations derived in reference 4. As had been expected, the transport of electricity in the melt $\text{Na}_2\text{O} \cdot \text{BaO} \cdot 4\text{SiO}_2$ takes place only by cations (sum of transference numbers ~ 1). The fraction

Card 1/2

5(4)

AUTHORS: Malkin, V. I., Pokidyshev, V. V. SOV/20-127-6-30/51

TITLE: Determination of the Relative Mobility of Alkali Metal Ions in Silicate Melts

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 6, pp 1253-1255 (USSR)

ABSTRACT: The present investigation was intended to explain the relation between ionic radius and mobility for alkali cations. The analysis was made by measurement of the Hittorf number in silicate melts consisting of $\text{Me}_2^{\text{I}}\text{O} \cdot \text{Me}_2^{\text{II}}\text{O} \cdot 0.4\text{SiO}_2$ (Me = Li, Na, K, Rb, Cs), and the concentration change of the one cation was observed by means of Na^{24} , K^{42} , Rb^{86} , or Cs^{134} marking. The experiments were performed at 1200° by using a corundum cell. Table 1 shows the measured Hittorf numbers, the radii as calculated according to Pauling, and the coordination numbers. It was discovered that with increasing radius of the cation there is a tendency to raise the Hittorf number according to the lessened strength of the linkage of the cation to the anion of the melt. The raise of the Hittorf number does not proceed

Card 1/2

Determination of the Relative Mobility of Alkali
Metal Ions in Silicate Melts

SOV/20-127-6-30/51

monotonously. Not always does a great difference between two radii of the cations correspond to a great difference of the Hittorf numbers. The relative mobility of the cation is not only influenced by the strength of the linkage to the anion but mainly also by a geometric factor that is caused by repulsive forces. This factor complicates the migration of a big cation more than that of a small one. The interaction of both these factors (strength of the linkage and repulsive forces) causes a zigzag shape of the ionic mobility curve. There are 1 figure, 1 table, and 12 references, 8 of which are Soviet.

ASSOCIATION: Institut metallovedeniya i fiziki metallov Tsentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii (Institute of Metallography and Metal Physics of the Central Scientific Research Institute of Ferrous Metallurgy)

PRESENTED: April 24, 1959, by G. V. Kurdyumov, Academician

SUBMITTED: April 22, 1959

Card 2/2

MALKIN, V.I.; POKIDYSHEV, V.V. (Moscow)

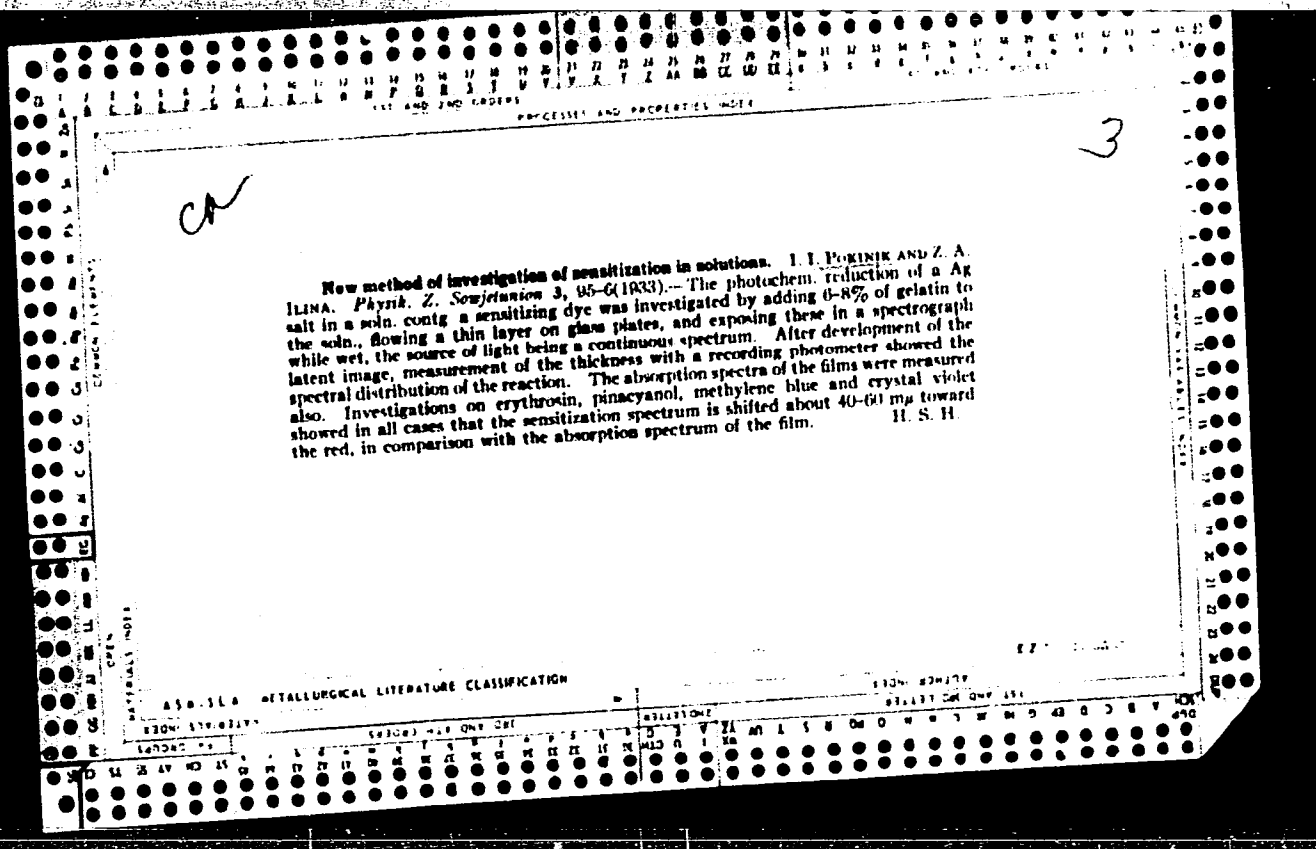
Measurement of cation transference numbers in $\text{Na}_2\text{O} \cdot \text{MgO} \cdot 4\text{SiO}_2$ and $\text{Na}_2\text{O} \cdot \text{SrO} \cdot 4\text{SiO}_2$ melts. Zhur. fiz. khim. 34 no.4:805-808 Ap '60.

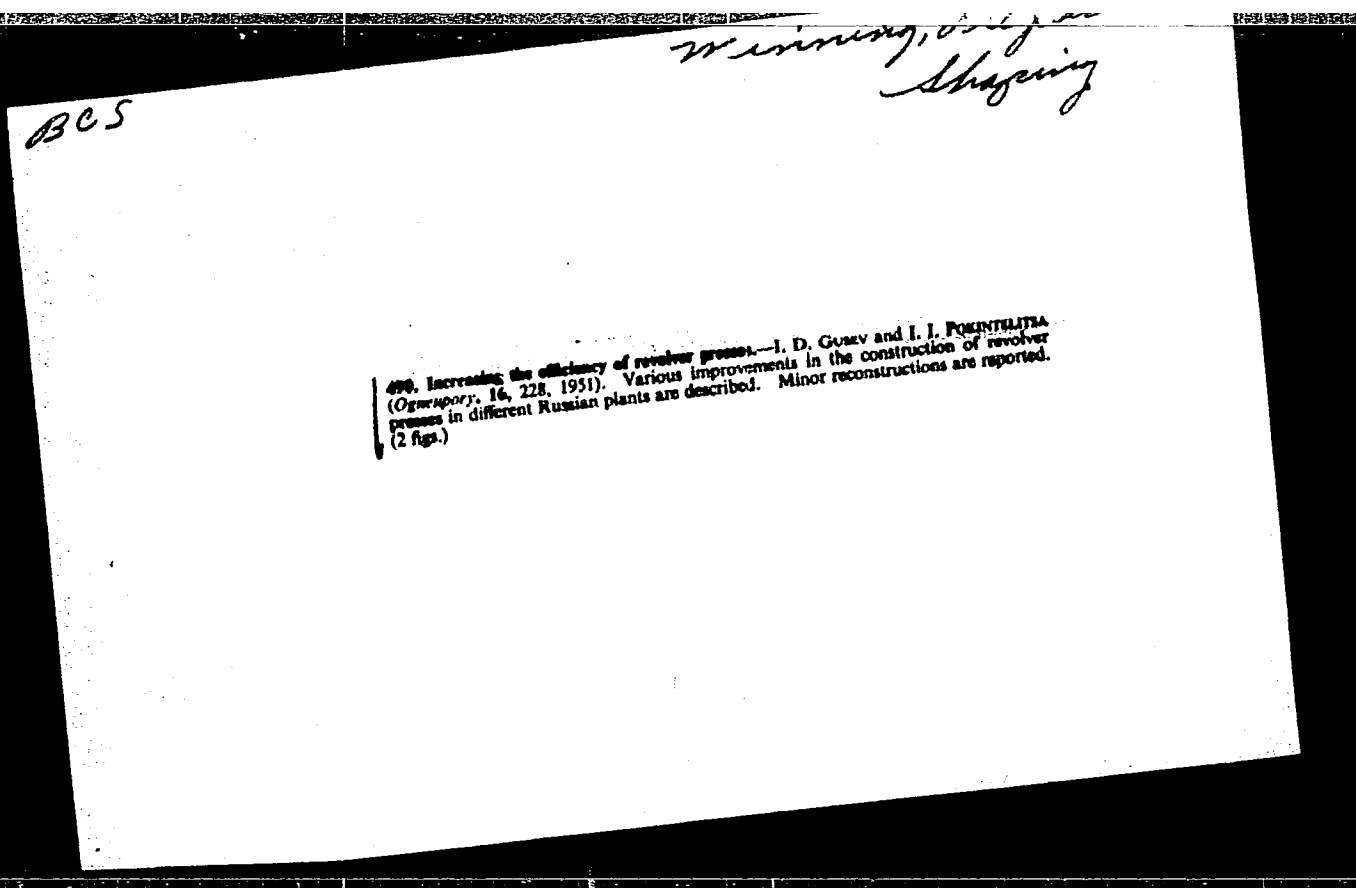
(MIRA 14:5)

1. Institut metallovedeniya i fiziki metallov Tsentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii.

(Ions--Migration and velocity)

1. FOKIN'CHUREDA, A.
 2. USSR (600)
 4. Coal Mines and Mining
 7. Stakhanovite school has helped. Mast. ugl. 1, no. 9, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.





1. POKIOAYEV, K.
2. USSR (600)
4. Collective Labor Agreements
7. Collective agreement in action, V pom. profaktivu, 14 no. 10, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

POKISHCHUK, YE.

Shishkin, Ivan Ivanovich, 1831-1898

I.I. Shishkin. Mol. kolkh. no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED.

1. POKISHEVSKIY, V. V.
2. USSR (600)
4. Volga-Don Canal
7. From the Volga to the Don Priroda, 41, No.11, 1952
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
B M64 The process of the oxidation of organic compounds by molten inhydride, by N. N. Moluikov and H. G. Pokitskaia. (The Laboratory of Organic Chemistry of OLF NIVIF) (Jurnal Obshch Chimii, v. VII E7, 1937, pp. 1533-1537)																			
ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION										FROM NOMIN									
FROM SYNONYM										FROM NOMIN									
FROM SYNONYM										FROM NOMIN									

POKITIYANSKIY, V. I.

N/5
613.326
.K9

Ul'Trazvuk I Yego Lechebnoye Prine-Neniye (Ultrasound And Its Use
In Medecine, By(N. P. Krylov I Nikolay Petrovich Krylov. Moskva, Medgiz, 1958.

242. Illus., Diagr., Graphs, Tables.

"Literatura": P. 209-241.

POKK, L. (Tartu)

Primary cancer of the liver in an 8-month-old child.
Arkh. pat. 27 no.3:85-87 '65.

(MIRA 18:5)

1. Kafedra patologicheskoy anatomii (zav. - dotsent U. Podar)
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